

| How Change is Perceived                          | Visualization Type     | Visual Variable |             |             |       |             | Time Encoding   |             |               | Design Trade-Off     |                         |
|--|------------------------|-----------------|-------------|-------------|-------|-------------|-----------------|-------------|---------------|----------------------|-------------------------|
|  |                        | position        | orientation | size        | color | area        | superimposition | integrated  | juxtaposition | Main Advantage       | Main Drawback           |
| Change in <b>Position</b>                        | line chart/ timeline   | <div></div>     |             |             |       |             | <div></div>     |             |               | expressiveness       | scalability             |
|  | connected scatter plot | <div></div>     |             |             |       |             |                 | <div></div> |               | context preservation | expressiveness          |
|  | slope graph            | <div></div>     |             |             |       |             |                 | <div></div> |               |                      | expressiveness          |
|  | parallel coordinates   | <div></div>     |             |             |       |             |                 | <div></div> |               |                      | mental map preservation |
| Change in <b>Layout</b>                          | MDS plots              | <div></div>     | <div></div> |             |       |             |                 |             | <div></div>   | scalability          | mental map preservation |
|  | temporal MDS plots     | <div></div>     | <div></div> |             |       |             | <div></div>     |             |               |                      |                         |
|  | node-link diagram      | <div></div>     | <div></div> |             |       |             |                 |             | <div></div>   |                      |                         |
| Change in <b>Retinal Properties &amp; Layout</b> | circle packing         |                 |             | <div></div> |       |             | <div></div>     |             |               | scalability          | change blindness        |
|  | tree map               |                 |             |             |       | <div></div> | <div></div>     |             |               |                      |                         |